

Industrial Long Reach PoE Extenders

Introduction

701MP/101MP Industrial Long Reach PoE Extenders are designed to extend the reach of Ethernet Data and IEEE 802.3at Power over Ethernet beyond its natural limitations of 100 meters for the network infrastructure. The solution works in pairs for point to point connectivity. It features **701MP** Long Reach PoE Extender that the master unit is at the central site and on the receiving end is **101MP** Long Reach PoE Extender with 4 PoE(PSE) ports.



Under **Remote Power Mode**, each **101MP** is equipped with four 10/100Base-TX IEEE 802.3at PoE Ports for a total power budget of 30W; Support any remote IEEE 802.3at/af powered device (PD) like Wi-Fi Access Point, IP phone, and IP Camera. It enables centralized management of power supply from a single location for easy, efficient and cost-effective installation.

When enabling **DC Power Mode** by dip switch, **101MP** can supply power budget of 30W to each of the four PoE ports. **Proscend Industrial 701MP/101MP Long Reach PoE Extenders** are ideal PoE extension solution for service providers to deploy networking applications in public areas that requires Wireless AP, IP Phones and IP Cameras.



Features

- Complies to IEEE 802.3at PoE
- Industrial-Grade Extenders for applications in harsh environment
- Simultaneous transmission of Ethernet data and PoE Power over UTP wire or coaxial cable
- Centralized management of power supply
- Eliminated the need for DC power supply at remote sites
- Easy cabling for quick installation
- Long transmission distance up to 1000 m
- Quick deployment and easy maintenance.
- Flexible and efficient power management
- Dip Switch to enable DC power supply and provide full 30W to each of the four PoE ports

Specifications

Hardware Interfaces

- Terminal Block for Copper Port
- BNC Female for Coaxial Port
- 4 x RJ-45 10/100Base-TX IEEE 802.3at PoE Port

3 Position Dip Switch

- Selectable target band plan (Asymmetric or Symmetric)
- Selectable target SNR margin (6dB or 9dB)
- Selectable Remote Power(ON) or DC Power(OFF)

LED Indicators

- Active: System Status
- LPWR/RPWR: DC Power/Remote Power
- PoE: PoE Port Status
- Available PoE Output(Watts): 5/15/30
- Line Speed(Mbps): Link/20/40/60/80/100

Power Supply

- Terminal blocks for redundant DC power inputs
- Input Voltage: 48 to 57 VDC
- Power Consumption: 701MP 65 Watts maximum, 101MP 125 Watts maximum
- Over current protection
- Automatic short protection

Protocol Support

- Transparent bridging to higher layer protocols

Operating Environment

- Operating Temperature: -40°C to 75°C
- Storage Temperature: -40°C to 85°C
- Humidity: 10% - 95% (non-condensing)

Physical

- Hardened aluminum case, IP30
- Dimensions (WxHxD): 62 x 135 x 106.5 mm
- Installation: DIN-Rail, Panel Rack Mounting

Regulatory Compliance

- CE
- FCC Part 15 Class A
- EN60950

Applications

[1.1 Remote Power Enable]



[1.2 Remote Power Disable]



Performance

Distance	24AWG Copper Wire	
	Line Rate	PoE Output (Watts)
300m	100Mbps	30W
400m	90Mbps	20W
600m	65Mbps	14W
800m	45Mbps	9W
1000m	35Mbps	6W
1200m	20Mbps	4.5W

* The above data is for reference only, the actual performance may vary depending on the quality of the cable and environmental conditions.

Ordering Information

Model Name	Description
701MP	Industrial Long Reach PoE Ethernet Extender with 4 Ethernet ports (Master)
101MP	Industrial Long Reach PoE Ethernet Extender with 4 PoE ports (Remote)

* Features and specifications are subject to change without prior notice.